

## EAST Search History

| Ref # | Hits | Search Query  | DBs                | Default Operator | Plurals | Time Stamp          |
|-------|------|---|--------------------|------------------|---------|---------------------|
| L5    | 2    | ((("4356073") or ("4422916")).PN.   | US-PGPUB;<br>USPAT | OR               | OFF     | 2009/01/29<br>14:03 |
| S1    | 1    | "204".clas. and (vacuum chamber) and (power coupler) and seal and (rotatable tube)  | US-PGPUB;<br>USPAT | ADJ              | ON      | 2007/03/29<br>17:23 |
| S2    | 1    | "204".clas. and (vacuum chamber) and (power coupler) and seal   | US-PGPUB;<br>USPAT | ADJ              | ON      | 2007/03/29<br>17:23 |
| S3    | 1    | "204".clas. and (vacuum chamber) and (power coupler)  | US-PGPUB;<br>USPAT | ADJ              | ON      | 2007/03/29<br>17:23 |
| S4    | 830  | "204".clas. and (vacuum chamber) and ((power source) or power) and seal   | US-PGPUB;<br>USPAT | ADJ              | ON      | 2007/04/04<br>16:16 |
| S5    | 1    | "204".clas. and (vacuum chamber) and ((power source) or power) and seal and (rotatable tube)  | US-PGPUB;<br>USPAT | ADJ              | ON      | 2007/03/29<br>17:24 |
| S6    | 410  | "204".clas. and (vacuum chamber) and ((power source) or power) and seal and drive   | US-PGPUB;<br>USPAT | ADJ              | ON      | 2007/04/05<br>14:54 |
| S7    | 271  | "204".clas. and (vacuum chamber) and ((power source) or power) and seal and drive and current   | US-PGPUB;<br>USPAT | ADJ              | ON      | 2007/03/29<br>17:25 |
| S8    | 12   | ((("4933064") or ("5053244") or ("4767641") or ("4987346") or ("4939424") or ("5399254") or ("5113790") or ("5296784") or ("5378284") or ("5294464") or ("5173640") or ("5006219")).PN. | US-PGPUB;<br>USPAT | OR               | OFF     | 2007/04/04<br>15:30 |
| S9    | 0    | 204/298.280.ccls. and (vacuum chamber) and ((power source) or power) and seal   | US-PGPUB;<br>USPAT | ADJ              | ON      | 2007/04/04<br>16:46 |
| S10   | 30   | (vacuum chamber) and ((power source) or power) and seal   | EPO; JPO           | ADJ              | ON      | 2007/04/04<br>16:46 |

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| S11 | 264 | "204".clas. and (vacuum chamber) and (rotate or rotation or rotatable) and (shaft or pole or rod) and seal and (drive or motor) and (bearing or nut or bolt)   | US-PGPUB;<br>USPAT | ADJ | ON  | 2007/04/04<br>17:07 |
| S13 | 30  | (("0521,638") or ("4,356,073") or ("4,407,713") or ("4,417,968") or ("4,422,916") or ("4,443,318") or ("4,445,997") or ("4,466,877") or ("4,519,885") or ("4,904,362") or ("4,927,515") or ("5,047,131") or ("5,096,562") or ("5,100,527") or ("5,106,474") or ("5,108,574") or ("5,156,727") or ("5,158,660") or ("5,171,411") or ("5,200,049") or ("5,213,672") or ("5,262,032") or ("5,338,422") or ("5,354,446") or ("5,364,518") or ("5,384,021") or ("5,445,721") or ("5,464,518") or ("5,470,452") or ("5,487,821") or ("5,518,592")).PN. | US-PGPUB;<br>USPAT | OR  | OFF | 2007/04/05<br>11:21 |
| S15 | 5   | (("20010047936") or ("20020029959") or ("20020092766") or ("20020189939") or ("20030136672")).PN.  | US-PGPUB;<br>USPAT | OR  | OFF | 2007/04/05<br>11:22 |

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| S16 | 18 | (("5,527,439") or<br>("5,539,272") or<br>("5,558,750") or<br>("5,563,734") or<br>("5,567,289") or<br>("5,571,393") or<br>("5,591,314") or<br>("5,616,225") or<br>("5,620,577") or<br>("5,645,699") or<br>("5,683,558") or<br>("5,688,388") or<br>("5,725,746") or<br>("5,814,195") or<br>("5,968,328") or<br>("6,365,010") or<br>("6,375,815") or<br>("6,475,354")).PN.   | US-PGPUB;<br>USPAT   | OR | OFF | 2007/04/05<br>11:23 |
| S19 | 2  | (("10004787A1") or<br>("10063383C1") or<br>("10213043A1") or<br>("10213049A1") or<br>("19610253C2") or<br>("19623359A1") or<br>("19651378A1") or<br>("19953470A1") or<br>("3229969A1") or<br>("4117367C2") or<br>("4117368A1") or<br>("4117518C2") or<br>("4126236C2") or<br>("4342766A1") or<br>("4418906A1") or<br>("740710B1") or<br>("969238A1") or<br>("1097766A1") or<br>("1179515A1") or<br>("1179516A1") or<br>("1186682A2") or<br>("1251547A1") or<br>("1365436A2") or<br>("300995B1") or<br>("502068B1") or<br>("537011B1") or<br>("537012A1") or<br>("586809B1") or<br>("589599B1") or<br>("638659A3") or<br>("703599B1") or<br>("724025B1") or<br>("2745010") or ("P2003-<br>183823A") or<br>("0000766")).PN. | EPO; JPO;<br>DERWENT | OR | OFF | 2007/04/05<br>11:25 |

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| S20 | 0   | "204".clas. and (vacuum chamber) and bearing with material with (ceramic balls) with (ceramic needles) and cylindrical   | US-PGPUB;<br>USPAT | ADJ | ON  | 2007/04/05<br>15:03 |
| S21 | 0   | "204".clas. and (vacuum chamber) and bearing with material with (ceramic balls) with (ceramic needles)   | US-PGPUB;<br>USPAT | ADJ | ON  | 2007/04/05<br>14:55 |
| S22 | 18  | (( "5,527,439" ) or<br>( "5,539,272" ) or<br>( "5,558,750" ) or<br>( "5,563,734" ) or<br>( "5,567,289" ) or<br>( "5,571,393" ) or<br>( "5,591,314" ) or<br>( "5,616,225" ) or<br>( "5,620,577" ) or<br>( "5,645,699" ) or<br>( "5,683,558" ) or<br>( "5,688,388" ) or<br>( "5,725,746" ) or<br>( "5,814,195" ) or<br>( "5,968,328" ) or<br>( "6,365,010" ) or<br>( "6,375,815" ) or<br>( "6,475,354" ) ).PN. | US-PGPUB;<br>USPAT | OR  | OFF | 2007/04/05<br>14:59 |
| S23 | 5   | (( "20010047936" ) or<br>( "20020029959" ) or<br>( "20020092766" ) or<br>( "20020189939" ) or<br>( "20030136672" ) ).PN.   | US-PGPUB;<br>USPAT | OR  | OFF | 2007/04/05<br>15:03 |
| S24 | 0   | "204".clas. and (vacuum chamber) and bearing with (ceramic balls) with (ceramic needles) and cylindrical   | US-PGPUB;<br>USPAT | ADJ | ON  | 2007/04/05<br>15:03 |
| S25 | 0   | "204".clas. and bearing with (ceramic balls) with (ceramic needles) and cylindrical  | US-PGPUB;<br>USPAT | ADJ | ON  | 2007/04/05<br>15:04 |
| S26 | 209 | "204".clas. and bearing with (composed or composition or comprising or containing) and sputtering  | US-PGPUB;<br>USPAT | ADJ | ON  | 2007/04/05<br>15:05 |
| S27 | 103 | "204".clas. and bearing with (composed or composition or comprising or containing) and sputtering and cylindrical  | US-PGPUB;<br>USPAT | ADJ | ON  | 2007/04/05<br>15:05 |

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| S28 | 15   | "204".clas. and bearing with (composed or composition or comprising or containing) and sputtering and (cylindrical with magnetron) | US-PGPUB; USPAT | ADJ | ON  | 2007/04/05 16:12 |
| S29 | 8    | "204".clas. and bearing with ceramic and sputtering and (cylindrical with magnetron)   | US-PGPUB; USPAT | ADJ | ON  | 2007/04/05 16:15 |
| S30 | 0    | "204".clas. and bearing with ceramic and Mp35N and sputtering and (cylindrical with magnetron)                                     | US-PGPUB; USPAT | ADJ | ON  | 2007/04/05 16:15 |
| S31 | 0    | "204".clas. and bearing with Mp35N and sputtering and (cylindrical with magnetron)   | US-PGPUB; USPAT | ADJ | ON  | 2007/04/05 16:16 |
| S32 | 0    | "204".clas. and bearing with (cobolt alloy) and sputtering and (cylindrical with magnetron)  | US-PGPUB; USPAT | ADJ | ON  | 2007/04/05 16:16 |
| S33 | 0    | "204".clas. and bearing with cobolt and sputtering and (cylindrical with magnetron)  | US-PGPUB; USPAT | ADJ | ON  | 2007/04/05 16:30 |
| S34 | 2    | ((liquid metal) or liquid-metal) and bearing with mp35n  | US-PGPUB; USPAT | ADJ | ON  | 2007/04/05 16:31 |
| S41 | 0    | "204".clas. and bearing with mercury and sputtering and (cylindrical with magnetron)   | US-PGPUB; USPAT | ADJ | ON  | 2007/04/09 09:43 |
| S42 | 0    | "204".clas. and bearing with (mercury or Hg) and sputtering and (cylindrical with magnetron)                                       | US-PGPUB; USPAT | ADJ | ON  | 2007/04/09 09:44 |
| S43 | 1    | jp-01305523-\$.did.  | JPO             | ADJ | ON  | 2007/04/09 14:12 |
| S44 | 2    | jp-01305523-\$.did.  | JPO; DERWENT    | ADJ | ON  | 2007/04/09 14:12 |
| S45 | 1    | ("4115283").PN.  | US-PGPUB; USPAT | OR  | OFF | 2007/04/16 10:02 |
| S46 | 9277 | bearing and (chromium or Cr) and (nickel or Ni) and (molybdenum or Mo) and (cobalt or Co)  | US-PGPUB; USPAT | ADJ | ON  | 2007/04/16 11:37 |

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| S47 | 3601 | bearing and (chromium or Cr) with (nickel or Ni) with (molybdenum or Mo) with (cobalt or Co)                        | US-PGPUB;<br>USPAT   | ADJ | ON  | 2007/04/16<br>11:37 |
| S48 | 73   | bearing and (chromium or Cr) with (nickel or Ni) with (molybdenum or Mo) with (cobalt or Co) and "204".<br>clas.    | US-PGPUB;<br>USPAT   | ADJ | ON  | 2007/04/16<br>10:57 |
| S49 | 5    | bearing same ((chromium or Cr) with (nickel or Ni) with (molybdenum or Mo) with (cobalt or Co)) and "204".<br>clas. | US-PGPUB;<br>USPAT   | ADJ | ON  | 2007/04/16<br>11:01 |
| S50 | 1    | ("6423419").PN.   | US-PGPUB;<br>USPAT   | OR  | OFF | 2007/04/16<br>11:01 |
| S51 | 465  | bearing and (chromium or Cr) and (nickel or Ni) and (molybdenum or Mo) and (cobalt or Co)                           | EPO; JPO;<br>DERWENT | ADJ | ON  | 2007/04/16<br>11:37 |
| S52 | 229  | bearing and (chromium or Cr) with (nickel or Ni) with (molybdenum or Mo) with (cobalt or Co)                        | EPO; JPO;<br>DERWENT | ADJ | ON  | 2007/04/16<br>13:13 |
| S53 | 245  | bearing and (chromium or Cr) with (nickel or Ni) with (molybdenum or Mo) with (cobalt or Co) or MP35N               | EPO; JPO;<br>DERWENT | ADJ | ON  | 2007/04/16<br>13:14 |
| S54 | 0    | bearing and MP35N   | EPO; JPO;<br>DERWENT | ADJ | ON  | 2007/04/16<br>13:14 |
| S55 | 62   | (rotatable same (target or cathode or electrode)) and (ceramic with bearing) and vacuum                             | US-PGPUB;<br>USPAT   | ADJ | ON  | 2007/11/28<br>21:07 |
| S56 | 50   | (rotatable with (target or cathode or electrode)) and (ceramic with bearing) and vacuum                             | US-PGPUB;<br>USPAT   | ADJ | ON  | 2007/11/28<br>21:07 |
| S57 | 1    | wo-03080891-\$.did.   | DERWENT              | ADJ | ON  | 2008/06/13<br>14:39 |
| S58 | 1    | 2003-789723.NRAN.   | DERWENT              | ADJ | ON  | 2008/06/24<br>11:01 |
| S59 | 1    | 10/508475.app.  | US-PGPUB;<br>USPAT   | ADJ | ON  | 2009/01/28<br>17:25 |
| S60 | 1    | "5096562".pn.   | US-PGPUB;<br>USPAT   | ADJ | ON  | 2009/01/28<br>17:26 |
| S61 | 1    | jp-02301559-\$.did.   | JPO                  | ADJ | ON  | 2009/01/28<br>17:26 |

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| S62 | 7      | ((("5096562") or ("5171411") or ("4356073") or ("4407713") or ("4374722") or ("5437778") or ("5591314"))).PN.                               | US-PGPUB;<br>USPAT | OR  | OFF | 2009/01/28<br>17:28 |
| S63 | 2      | jp-02301559-\$.did. or ep-0992606-\$.did. or ep-0500774-\$.did. or de-4117368-\$.did.   | DERWENT            | ADJ | ON  | 2009/01/28<br>17:29 |
| S64 | 4      | jp-02301559-\$.did. or ep-992606-\$.did. or ep-500774-\$.did. or de-4117368-\$.did.   | DERWENT            | ADJ | ON  | 2009/01/28<br>17:29 |
| S65 | 9      | ((("5096562") or ("5171411") or ("4356073") or ("4407713") or ("4374722") or ("5437778") or ("5591314") or ("6176982") or ("5262032"))).PN. | US-PGPUB;<br>USPAT | OR  | OFF | 2009/01/28<br>17:31 |
| S66 | 3247   | (sputter or sputtering) and ((cylindrical or rotatable) with (cathode or target))   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/01/28<br>17:56 |
| S67 | 373753 | (shaft or drive) with (bearing or roller)   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/01/28<br>17:56 |
| S68 | 52     | "I19" and S67   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/01/28<br>17:57 |
| S69 | 231    | S66 and S67   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/01/28<br>17:57 |
| S70 | 392412 | (shaft or drive or rotary) with (bearing or roller)   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/01/28<br>17:57 |
| S71 | 251    | S70 and S66   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/01/28<br>17:58 |
| S72 | 160    | S71 and seal  | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/01/28<br>17:58 |
| S73 | 162    | S71 and (seal or oring or o-ring)   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/01/28<br>17:58 |
| S74 | 3      | ((("4443318") or ("4445997") or ("4466877"))).PN.   | US-PGPUB;<br>USPAT | OR  | OFF | 2009/01/28<br>18:18 |
| S75 | 3      | ("4443318" "4445997" "4466877").pn. and bearing   | US-PGPUB;<br>USPAT | OR  | ON  | 2009/01/28<br>18:19 |

1/29/2009 6:31:24 PM

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